

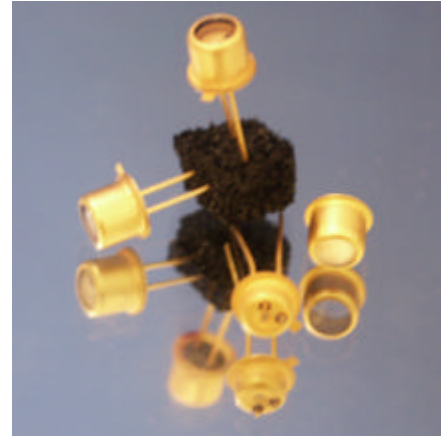
LIGHT EMITTING DIODES 1.6÷4.6 μm

Model LED29 2.9 mm 8 mW

•Light Emitting Diodes **LED29** are designed for emitting at a spectral range around 2900 nm. Heterostructures (HS) are grown on InAs substrates. The output emission can be modulated by current flowing in a forward direction.

•Light Emitting Diodes **LED29** are developed for using in optical gas sensors and medical diagnostics. They have stable output power and lifetime more then 10000 hours.

•Related products: **LED29** can be used in optical pair with our photodiodes **PD36**. Our standard **LED Driver** provides power supply of **LED29** in two recommended here regimes (Quasi-CW and Pulsed).



| Parameters | Min | Typ | Max |
|---------------------------------|----------|------|------|
| Wavelength, μm | 2.80 | 2.90 | 3.00 |
| FWHM, μm | 0.60 | 0.70 | 0.80 |
| Optical Power, μW | | | |
| Quasi-CW @ 200 mA | 6 | 8 | 10 |
| Pulsed @ 1A | 120 | 150 | 170 |
| Switching Time, ns | 10 | 30 | 50 |
| Operating Temperature Range, °C | -240÷+50 | | |
| Emitting Area, μm | 300x300 | | |
| Soldering temperature | 260 °C | | |
| Package | TO-18 | | |

Recommended regimes of operation

